

## Percent Word Problems

At a sale, Brandi paid \$36 for a new coat whose price had been reduced by 20%. What was the original price?

20% reduction is equivalent to 80% of the original price.

## Equation Method

36 is 80% of original price

$$36 = (0.80)B$$

$B = 45$ , \$45 is the original Price

## Proportion Method

80	36	Sale Price
100	x	Coat Price

$$\frac{80}{100} = \frac{36}{x}$$

$$80x = 36 \cdot 100$$

$$x = 45$$

Ishmael received a discount of \$56.25. He paid \$125.00 - \$56.25 = \$68.75 (Price Decrease)